

## PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2004-085512  
(43) Date of publication of application : 18. 03. 2004

(51) Int. CL. G01N 21/90  
G01B 11/30

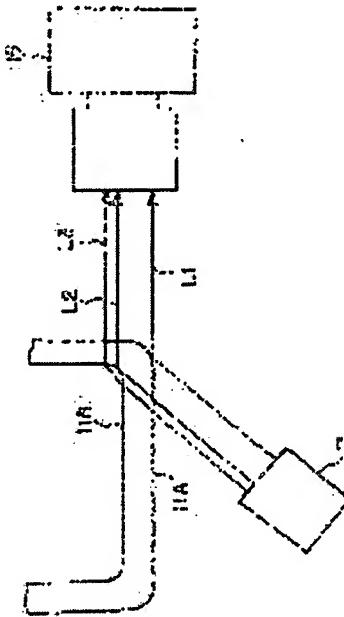
(21) Application number : 2002-250309 (71) Applicant : TOYO GLASS CO LTD  
(22) Date of filing : 29. 08. 2002 (72) Inventor : TAKIZAWA TSUTOMU

## (54) DEFECT DETECTOR, AND DEFECT INSPECTION METHOD

## (57) Abstract:

PROBLEM TO BE SOLVED: To detect a defect in a bent part such as a skirt corner part of a glass container.

SOLUTION: In this defect detector, a projector 13 is arranged in a position where one part of irradiation light is reflected on an outer face 11A in the skirt corner part of the glass container, and where one part of the irradiation light is incident into the skirt corner part to be reflected on an inner face 11B of the bent part. An imaging device 15 is arranged in a position to photo-receive reflected light L1 on the outer face 11A in the skirt corner part and reflected light L2 on the inner face 11B. The presence of the defect is inspected based on an image picked up by the imaging device 15.



## LEGAL STATUS

[Date of request for examination] 14. 01. 2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]  
[Date of extinction of right]

Copyright (C) ; 1998, 2003 Japan Patent Office

JP 2004-85512

(19) 日本国特許庁(JP)

## (12) 公開特許公報(A)

(11) 特許出願公

特開20

(P20)

(43) 公開日 平成16年3月18日(

(51) Int.Cl.

G01N 21/90  
G01B 11/30

F I

G01N 21/90  
G01B 11/30  
G01B 11/30テーマコード  
2FO65  
2GO51  
Z(21) 出願登号  
(22) 出願日特願2002-250309 (P2002-250309)  
平成14年8月29日 (2002. 8. 29)(71) 出願人 000222222  
東洋ガラス株式会社  
東京都千代田区内幸町1丁目3番(74) 代理人 100091B23  
弁理士 鮎淵 昌之(74) 代理人 100101775  
弁理士 鮎淵 一江(72) 発明者 11 日光ハイム 405  
神奈川県横浜市神奈川区西幸尾  
Fターム(参考) 2P065 AA30 AA10 BB08 BB  
FF42 HH12 JJ03 JJ  
LL11 PP13 QQQ0 QQ

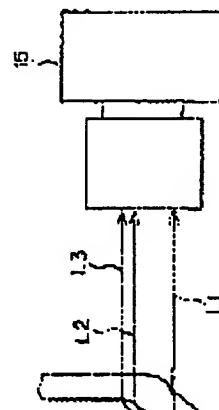
最終

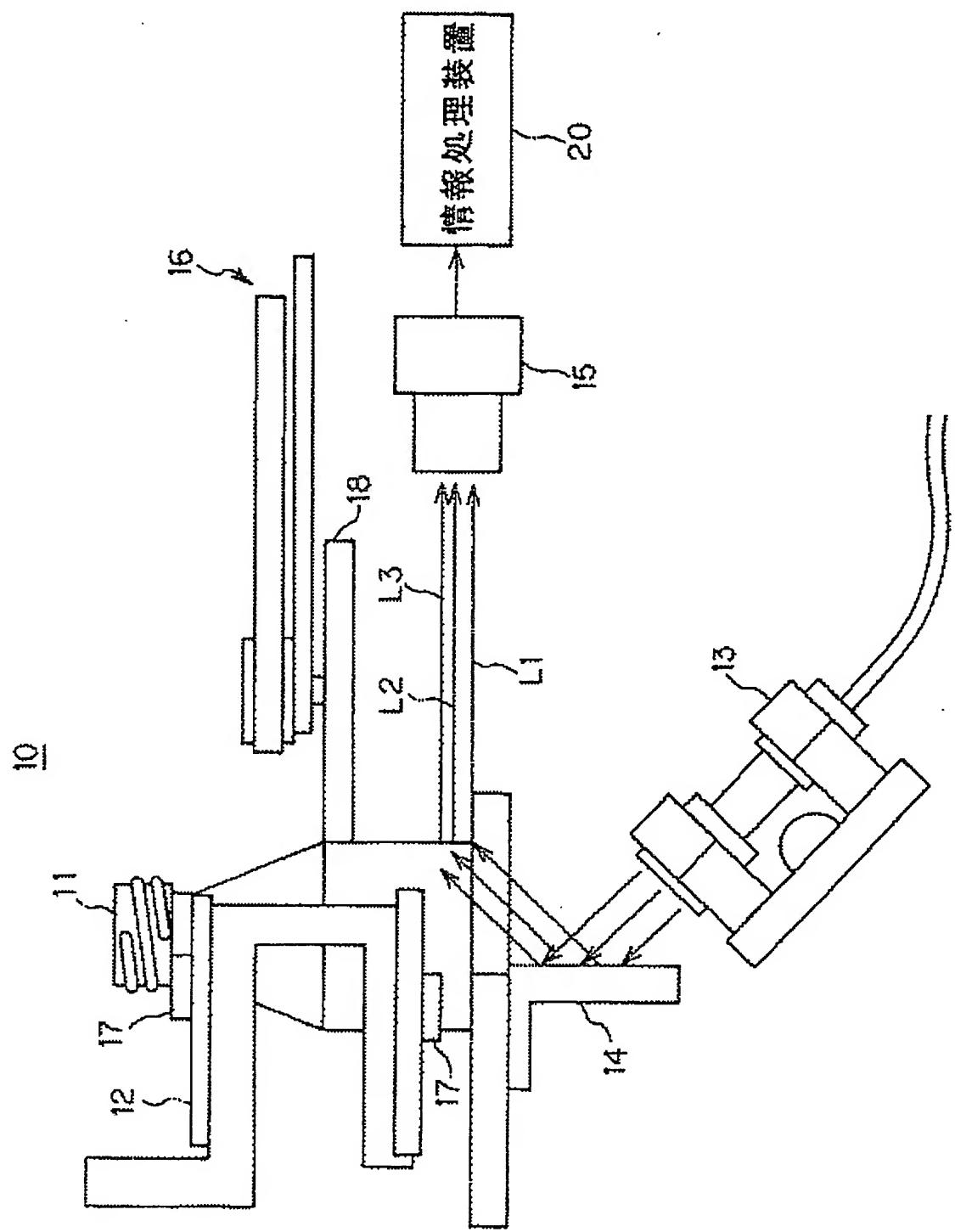
(54) 【発明の名称】 欠陥検出装置および欠陥検査方法

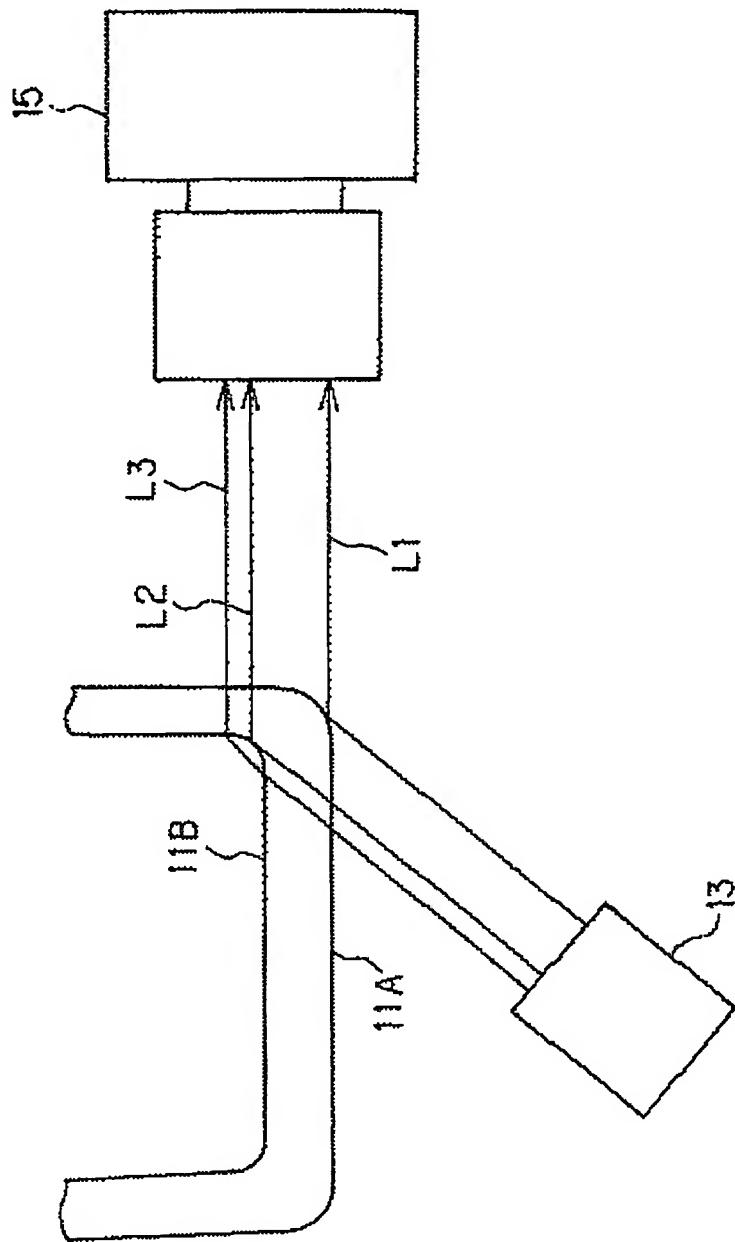
## (57) 【要約】

【課題】ガラス容器の鋸コーナ部などの屈曲部の欠陥を検出することができる欠陥検出装置および欠陥検査方法を提供する。

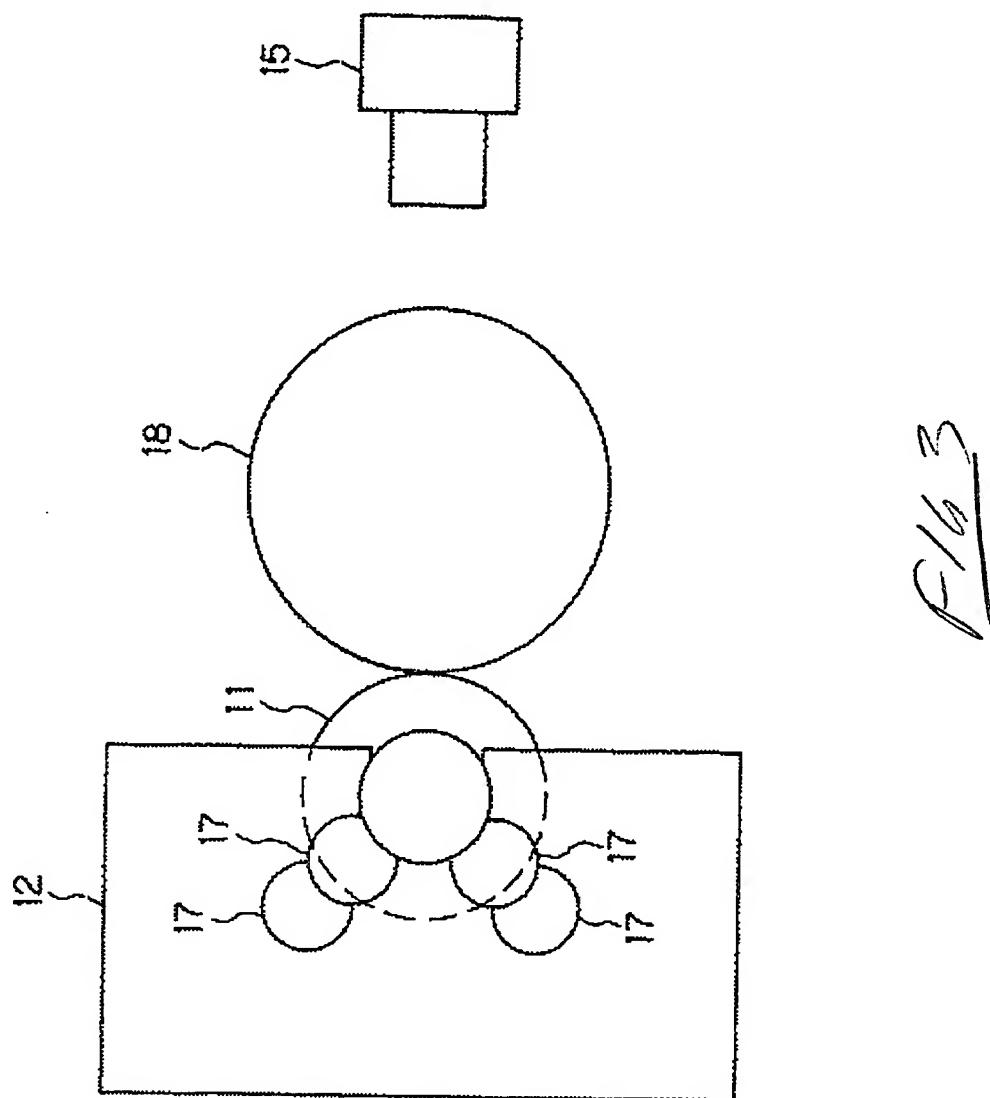
【解決手段】欠陥検出装置において、投光器13は、照射する光の一部がガラス容器の鋸コーナ部の外面11Aで反射され、かつ、照射光の一部が鋸コーナ部に入射して屈曲部の内面11Bで反射される位置に配置される。また、撮像装置15は、鋸コーナ部の外面11Aの反射光L1および内面11Bの反射光L2を受光する位置に配置される。又、遮光部16は、撮像装置15の撮影面側に並ぶ。







F16 2



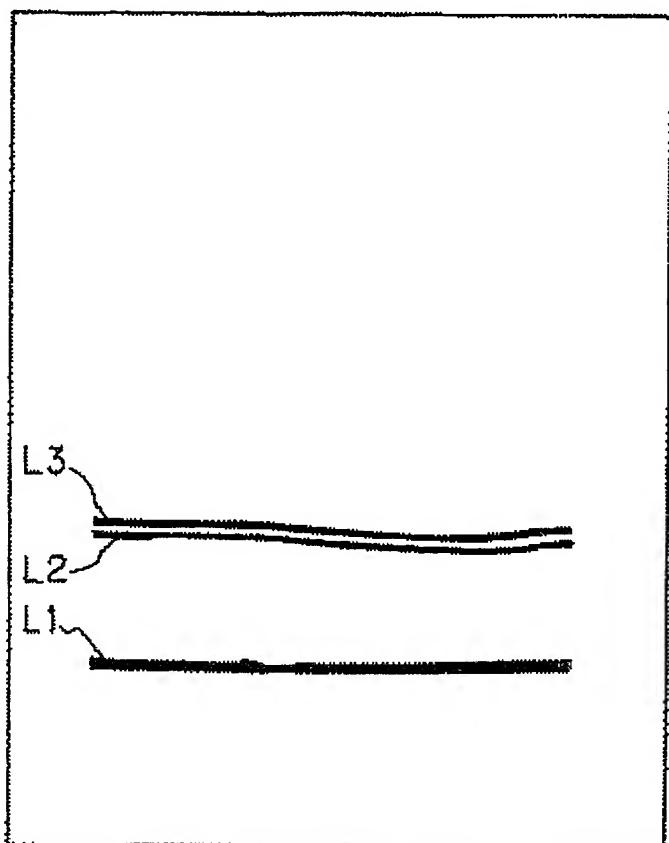


FIG 4

Drawing selection drawing 5 ▾

---

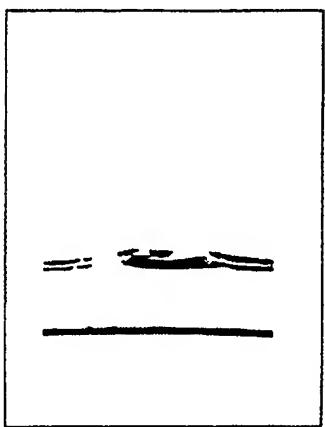


FIG 5

---

[Translation done.]

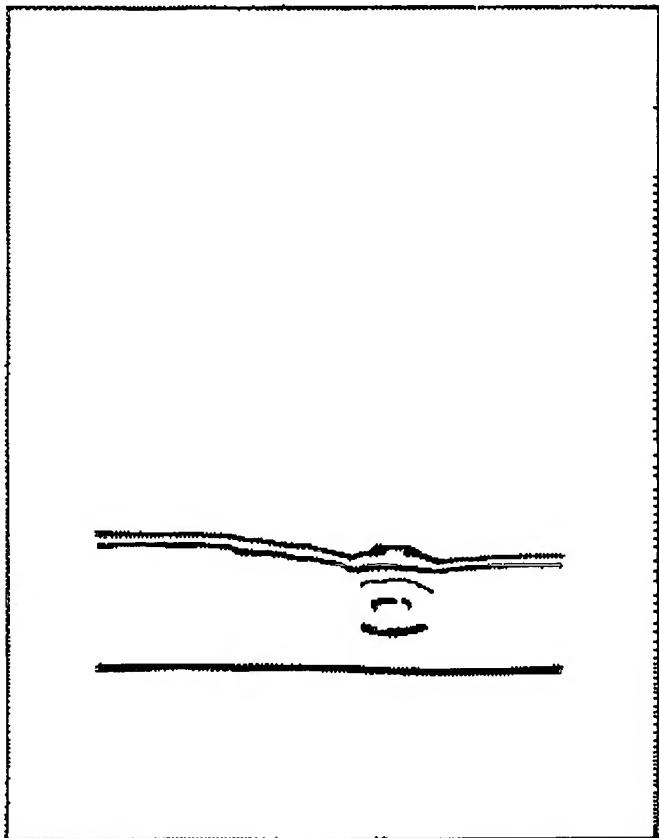


FIG 6